

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/002294

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7 H01L 31/09, G01J 1/02**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L G01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean Patents and applications for inventions, since 1975  
Korean Utility models and applications for Utility models, since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2002-71452 A (NEC CORP.) 8 MARCH 2002 see the abstract, figure 3, detailed description of the invention	1-19
A	US 6198099 B1 (DAEWOO ELECTRONICS CO., LTD.) 6 MARCH 2001 see the whole document	1-19
A	WO 94/01743 A1 (HONEYWELL INC.) 20 JANUARY 1994 see the whole document	1-19
A	JP 10-332480 A (MITSUBISHI ELECTRICS CO., LTD.) 18 DECEMBER 1998 see the whole document	1-19
A	US 5825029 (COMMISSARIAT A L'ENERGIE ATOMIQUE) 20 OCTOBER 1998 see the whole document	1-19

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents:  
"A" document defining the general state of the art which is not considered to be of particular relevance  
"E" earlier application or patent but published on or after the international filing date  
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)  
"O" document referring to an oral disclosure, use, exhibition or other means  
"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
"&" document member of the same patent family

Date of the actual completion of the international search  
24 DECEMBER 2004 (24.12.2004)

Date of mailing of the international search report  
**24 DECEMBER 2004 (24.12.2004)**

Name and mailing address of the ISA/KR  
  
Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
Republic of Korea  
Facsimile No. 82-42-472-7140

Authorized officer  
KIM, Dong Yup  
Telephone No. 82-42-481-5749



**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/KR2004/002294

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2002-71452 A	08.03.2002	NONE	
US 6198099 B1	06.03.2001	WO 00/012986 A1	09.03.2000
WO 94/01743 A1	20.01.1994	NONE	
JP 10-332480 A	18.12.1998	JP 3549363 B	04.08.2004
US 5825029	20.10.1998	FR 2735574 A1 FR 2735574 B1 EP 749007 A1 EP 749007 B1 DE 69615932 C0 DE 69615932 T2	20.12.1996 18.07.1997 18.12.1996 17.10.2001 22.11.2001 13.06.2002